

Name _____

Mitosis and Meiosis: The Aging Dance of Cells

Open-Ended Response Questions

1. Discuss the role of meiosis in ensuring genetic diversity and its potential challenges as individuals age.
2. Explain the concept of genetic mutations accumulating in cells during the aging process and their implications for health.
3. Imagine a world where aging had no impact on cell division. How might this world be different in terms of health and reproduction?
4. How can a deeper understanding of the changes in mitosis and meiosis with age contribute to improving the quality of life for older individuals?

